

Table A-79

## AGGREGATE DEMAND SCHEDULE FOR RUN 27 OF THE MOHAWK PERMIT SYSTEM SIMULATION

PRICE OF PERMIT	DEMAND,LBS/DAY	PRICE OF PERMIT	DEMAND,LBS/DAY
0.0	117802.00	318.61	17904.66
69.36	100339.19	357.47	16857.50
81.44	92588.19	369.96	16519.19
94.65	83615.19	379.52	16282.84
97.87	80854.86	396.33	15873.68
101.91	75763.88	398.86	15851.02
104.99	70831.13	437.13	15538.02
110.21	61777.25	515.37	14928.45
112.18	57845.31	574.20	14466.02
115.56	53064.04	614.10	14252.58
115.65	52869.79	643.34	14102.81
125.24	37334.32	672.48	13954.06
125.83	30557.58	725.61	13617.25
126.12	36222.91	741.45	13601.37
132.81	33792.09	907.26	12753.55
138.47	33080.25	937.86	12643.34
155.01	29417.64	938.52	12641.56
173.51	25318.51	940.10	12620.42
181.81	24045.56	966.59	12594.89
197.83	21736.54	974.46	12467.39
202.94	21463.69	982.33	12359.85
238.82	19971.97	994.19	12252.40
279.75	19039.89	1045.77	12182.13
304.13	18259.10	1262.44	12104.50
		1587.37	12001.00

A-98-14

Table A-80

## RESPONSES OF RIDERS FOR RUN 27 OF THE MOHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 70000.

TERM= 5 YRS

UNIT=LBS/DAY RP

MARKET CLEARING PRICE=\$ 105.47

POLLUTER A -98- T -15	PERMITS ISSUED	COST	TREATMENT	COST	TOTAL COST
	LBS/DAY	\$	LBS/DAY	\$	\$
FT PLAIN	5503.04	580407.88	11785.91	818120.00	1398528.00
ILION	6627.98	699049.94	12420.02	1063490.00	1762534.00
CANAJOHARIE	8536.07	900294.88	11022.93	893588.94	1793803.00
HERKIMER	2662.57	280619.63	5050.43	65202.81	346022.44
LITTLE FALLS	7667.00	808634.81	6951.00	71d880.94	1527515.00
ROME	17147.62	1808551.00	13904.38	443021.63	2251572.00
ST JOHNSVILLE	7164.00	755583.69	7047.00	617446.00	1373029.00
UTICA	14591.73	1549530.00	90647.25	2565325.00	4114855.00
TOTALS	70000.00	7382868.00	158878.88	7185072.00	14567943.00
	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
FT PLAIN	5503.04	153111.13	11785.91	215819.50	368930.63
ILION	6627.98	184408.81	12420.02	280547.81	464956.63
CANAJOHARIE	8536.07	237497.06	11022.93	235728.00	473225.06
HERKIMER	2662.57	74079.94	5050.43	17200.45	91280.38
LITTLE FALLS	7667.00	213317.14	6951.00	189640.19	402957.38
ROME	17147.62	477094.31	13904.38	116668.75	593963.06
ST JOHNSVILLE	7164.00	199322.38	7047.00	162881.75	362204.13
UTICA	14591.73	408764.75	90647.25	676730.69	1085495.00
TOTALS	70000.00	1947594.00	158878.88	1895416.00	3743010.00

TOTAL NATIONAL INCOME COST=\$ 3507666.00/YR

Table A-81

## RESPONSES OF BIDDERS FOR RUN 27 OF THE MOHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 35000.

TERM= 5 YRS

UNIT=LBS/DAY BP

MARKET CLEARING PRICE=\$ 129.49

POLLUTER # 1986-97-96	PERMITS BOUGHT		COST		TREATMENT		COST		TOTAL COST	
	LBS/DAY	\$	LBS/DAY	\$	LBS/DAY	\$	LBS/DAY	\$	LBS/DAY	\$
FT PLAIN	1889.20	244628.00	15349.50	1230189.00	1480817.00					
ILION	2332.88	302079.50	16715.11	1538673.00	1840752.00					
CANAJOHARIE	2467.18	319458.88	17041.82	1593174.00	1913242.00					
HERKIMER	2381.00	308309.80	5332.00	98280.75	406590.63					
LITTLE FALLS	7667.00	992781.13	6951.00	718880.94	1711662.00					
ROME	6809.96	881805.25	24242.04	1672930.00	2554735.00					
ST JOHNSVILLE	2560.70	331579.19	11650.30	1162150.00	1500735.00					
UTICA	8892.09	1151414.00	96496.88	3215342.00	4366756.00					
TOTALS	35000.01	4532065.00	143878.88	11243224.00	15775289.00					
	LBS/DAY	/YR	LBS/DAY	/YR	LBS/DAY	/YR	LBS/DAY	/YR	LBS/DAY	/YR
FT PLAIN	1889.20	64532.67	15349.80	320105.63	390638.25					
ILION	2332.88	79688.31	16715.11	405900.69	485589.00					
CANAJOHARIE	2467.18	84275.63	17041.82	420436.31	504711.94					
HERKIMER	2381.00	81331.88	5332.00	25926.38	107258.25					
LITTLE FALLS	7667.00	261894.81	6951.00	169040.19	451535.00					
ROME	6809.96	232619.50	24242.04	441317.66	613931.06					
ST JOHNSVILLE	2560.70	87410.31	11650.30	300422.38	395892.69					
UTICA	8892.09	303742.06	96496.88	848204.63	1151446.00					
TOTALS	35000.01	1195555.00	143878.88	2965953.00	4161508.00					

TOTAL NATIONAL INCOME COST=\$ 5073542.00/YR

The following nine pages contain Figures A-1 through A-9 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." They all correspond to computer run 1 of the Mohawk permit system simulation. Figures A-1 through A-8 are the demand curves for the eight cities in the Mohawk River system. Figure A-9 is the aggregate demand curve for the system. All figures are described in more detail in Section 6 of this report.

Figure A-1

DEMAND CURVE OF FORT PLAIN FOR RUN 1  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

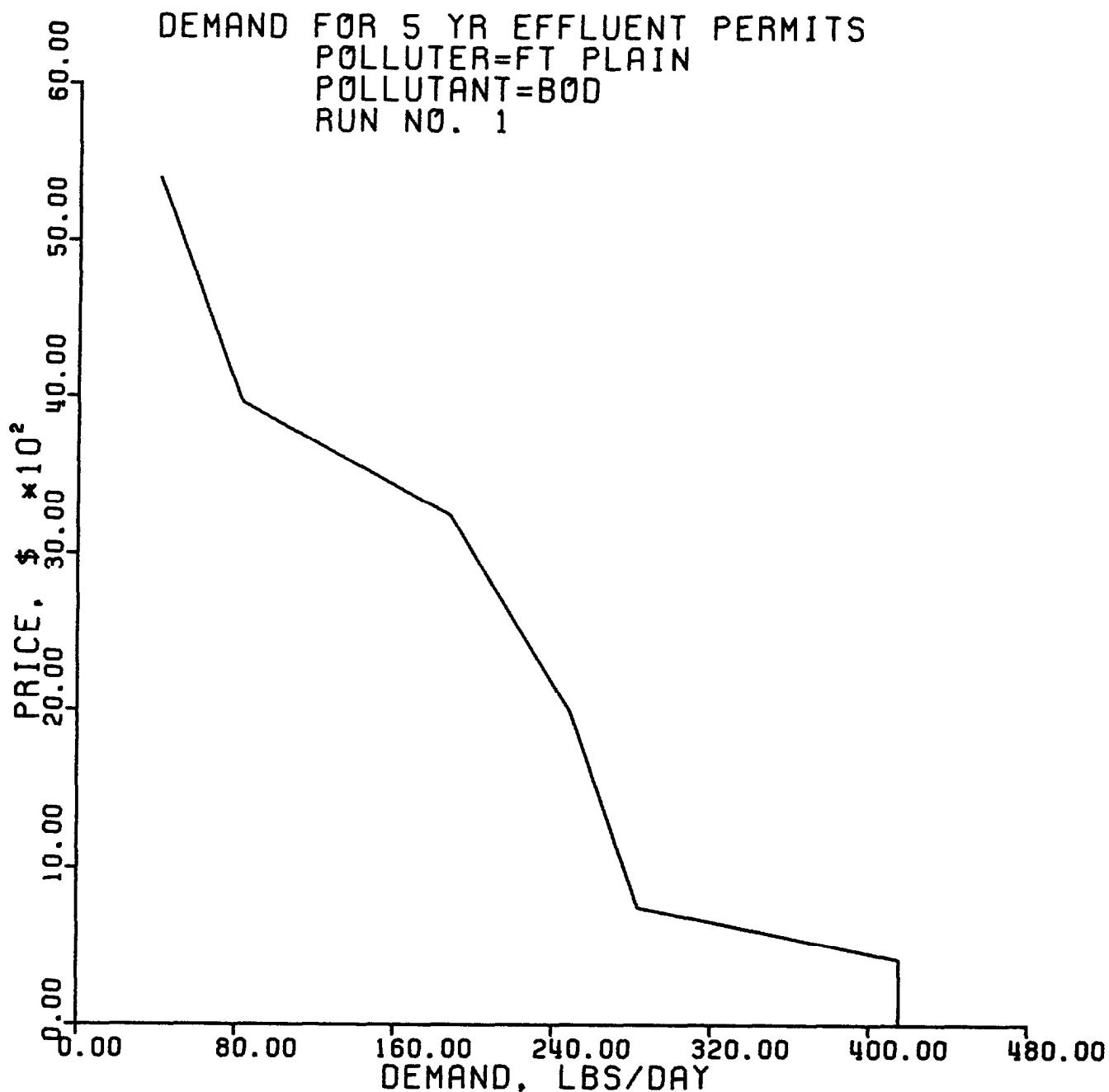


Figure A-2

DEMAND CURVE OF ILION FOR RUN 1  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

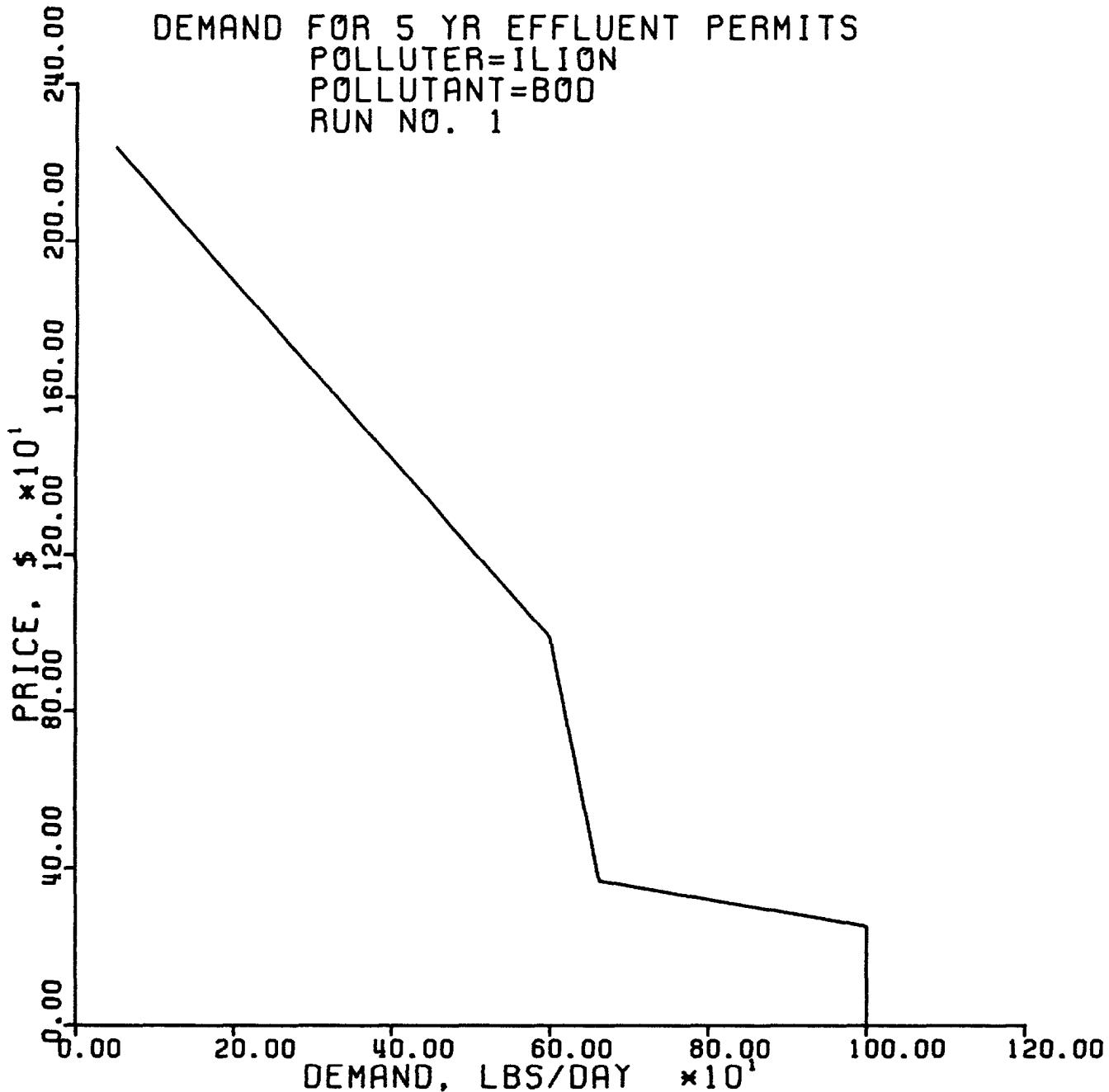


Figure A-3

DEMAND CURVE OF CANAJOHARIE FOR RUN 1  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

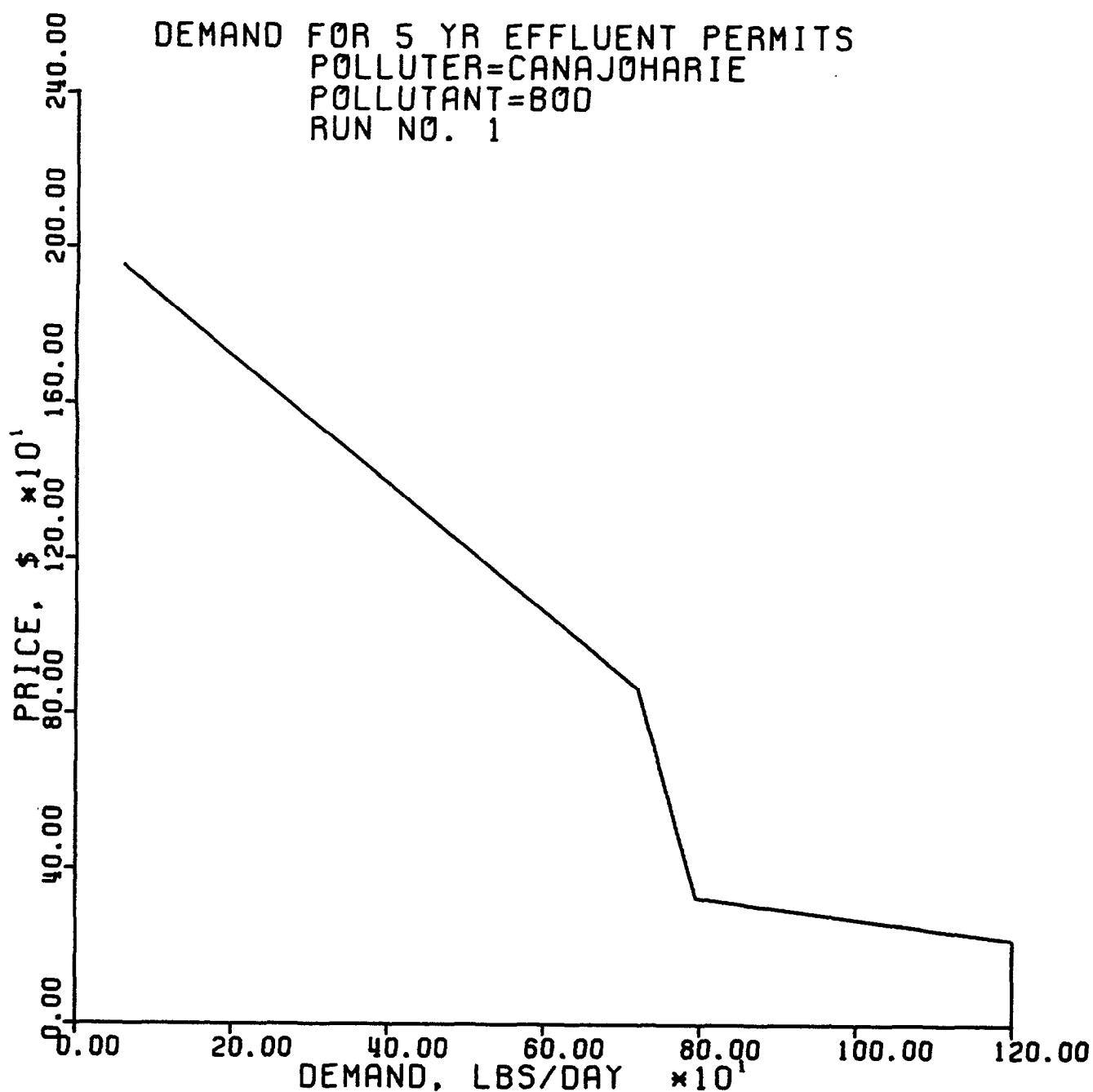


Figure A-4

DEMAND CURVE OF HERKIMER FOR RUN 1  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

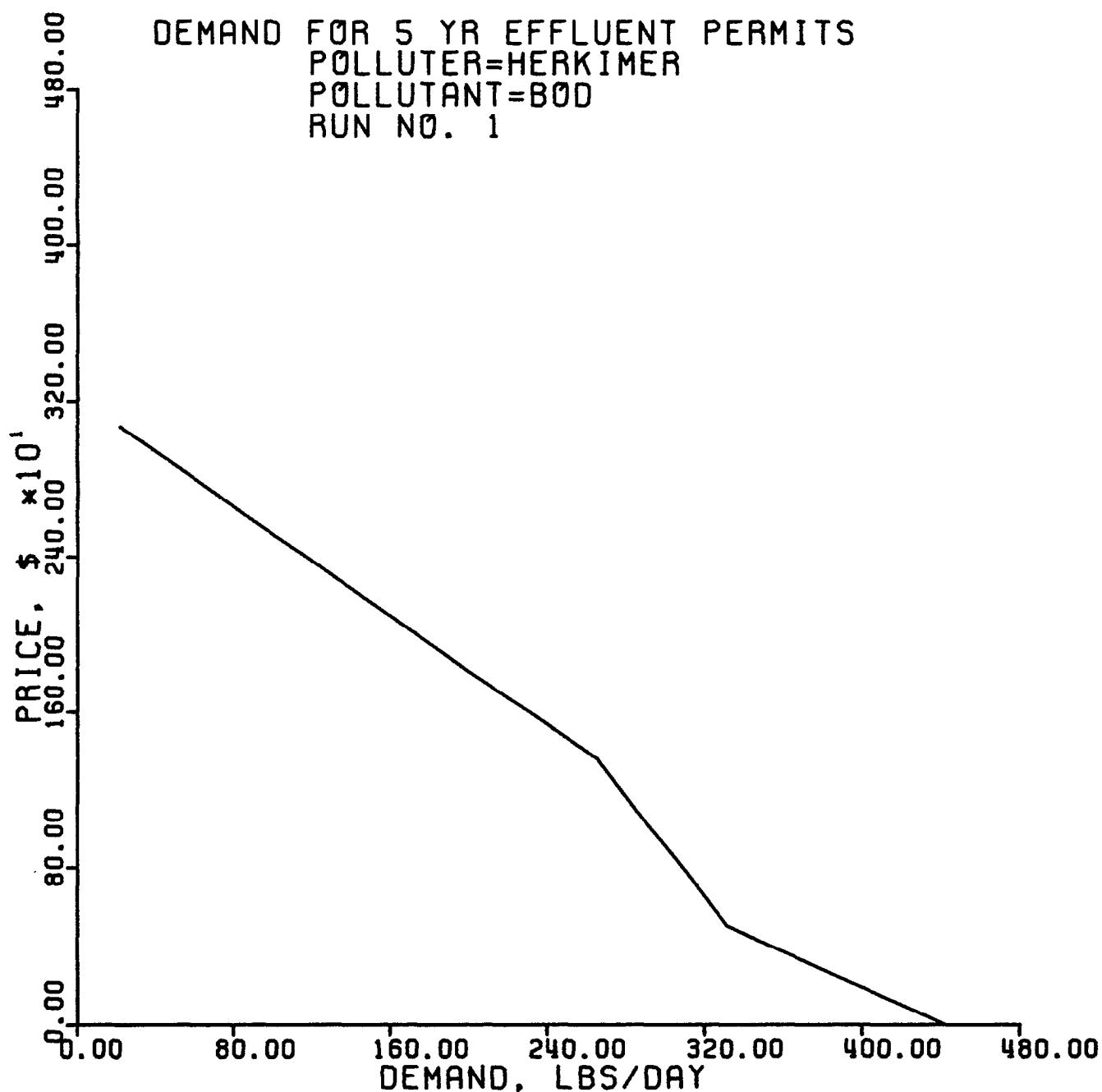


Figure A-5

DEMAND CURVE OF LITTLE FALLS FOR RUN 1  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

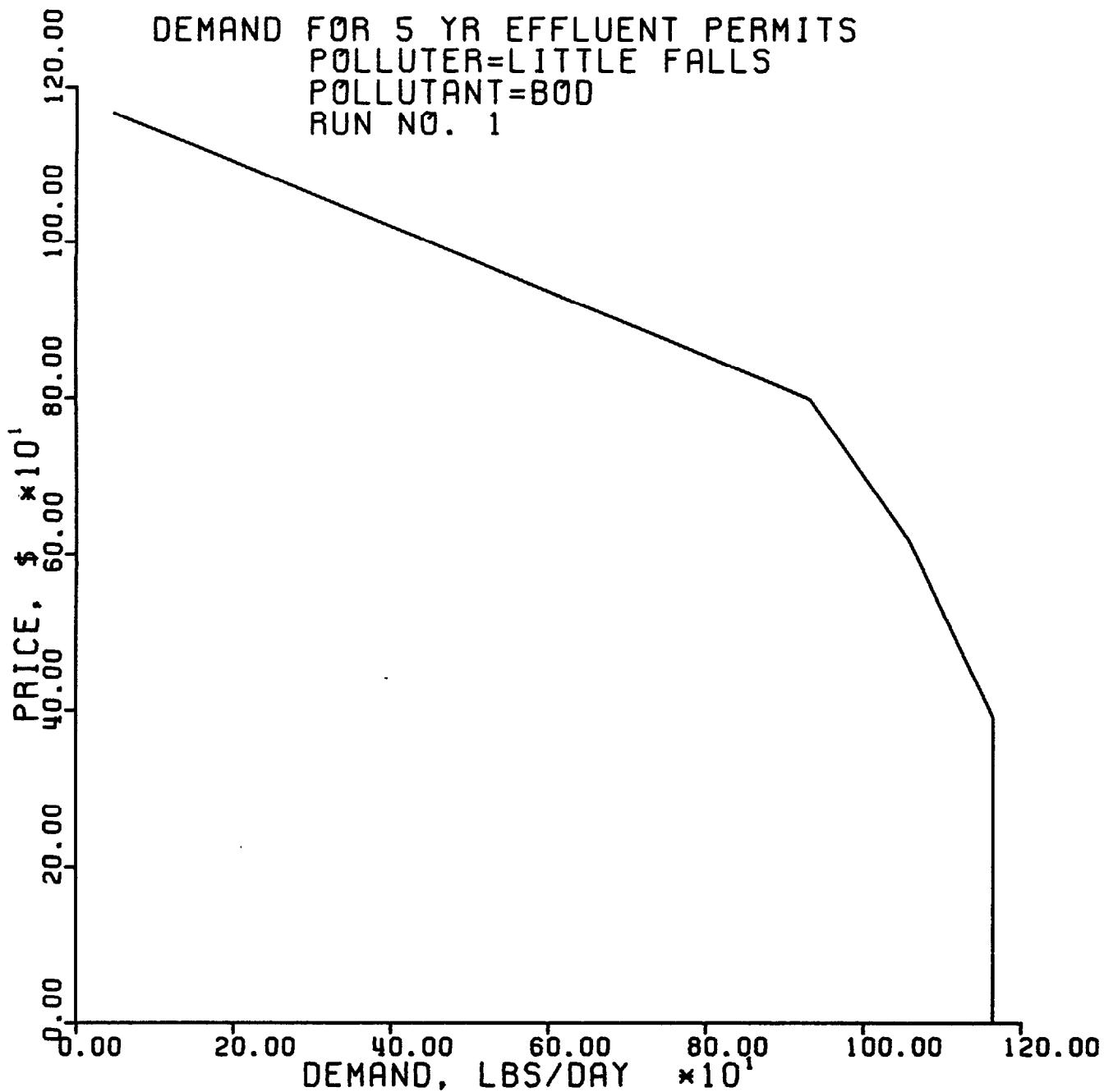


Figure A-6

DEMAND CURVE OF ROME FOR RUN 1  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

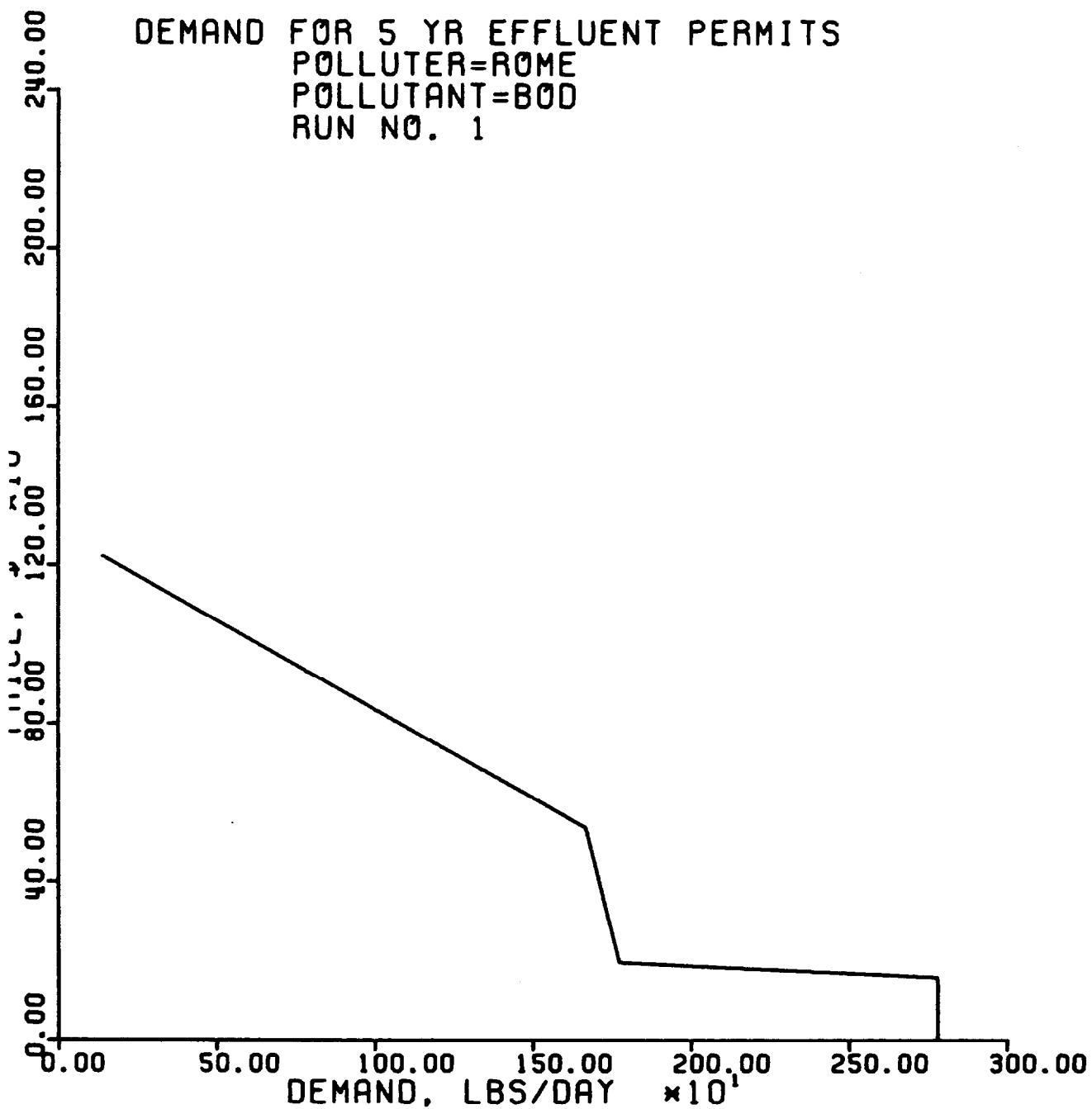


Figure A-7

DEMAND CURVE OF ST. JOHNSVILLE FOR RUN 1  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

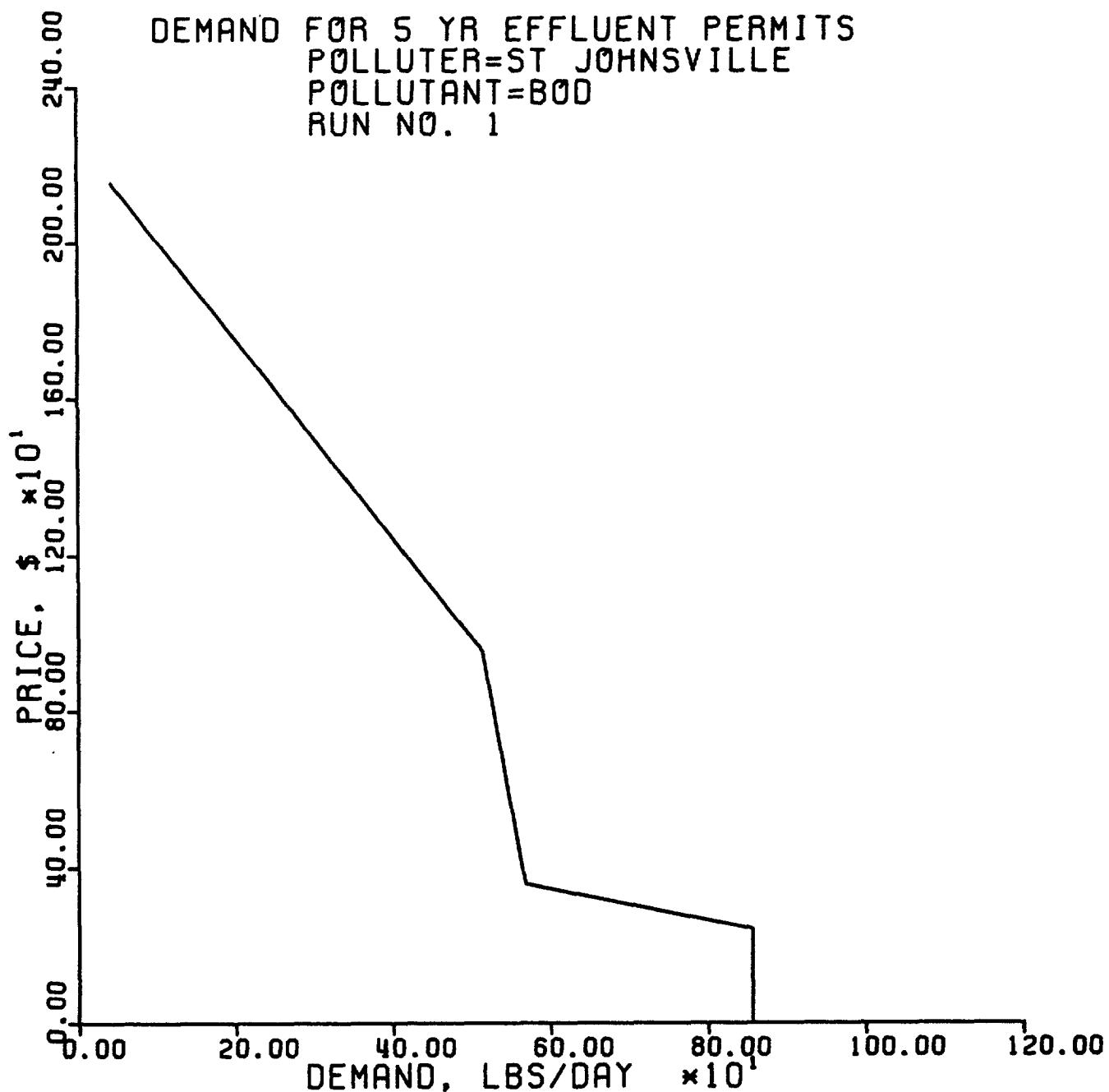


Figure A-8

DEMAND CURVE OF UTICA FOR RUN 1  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

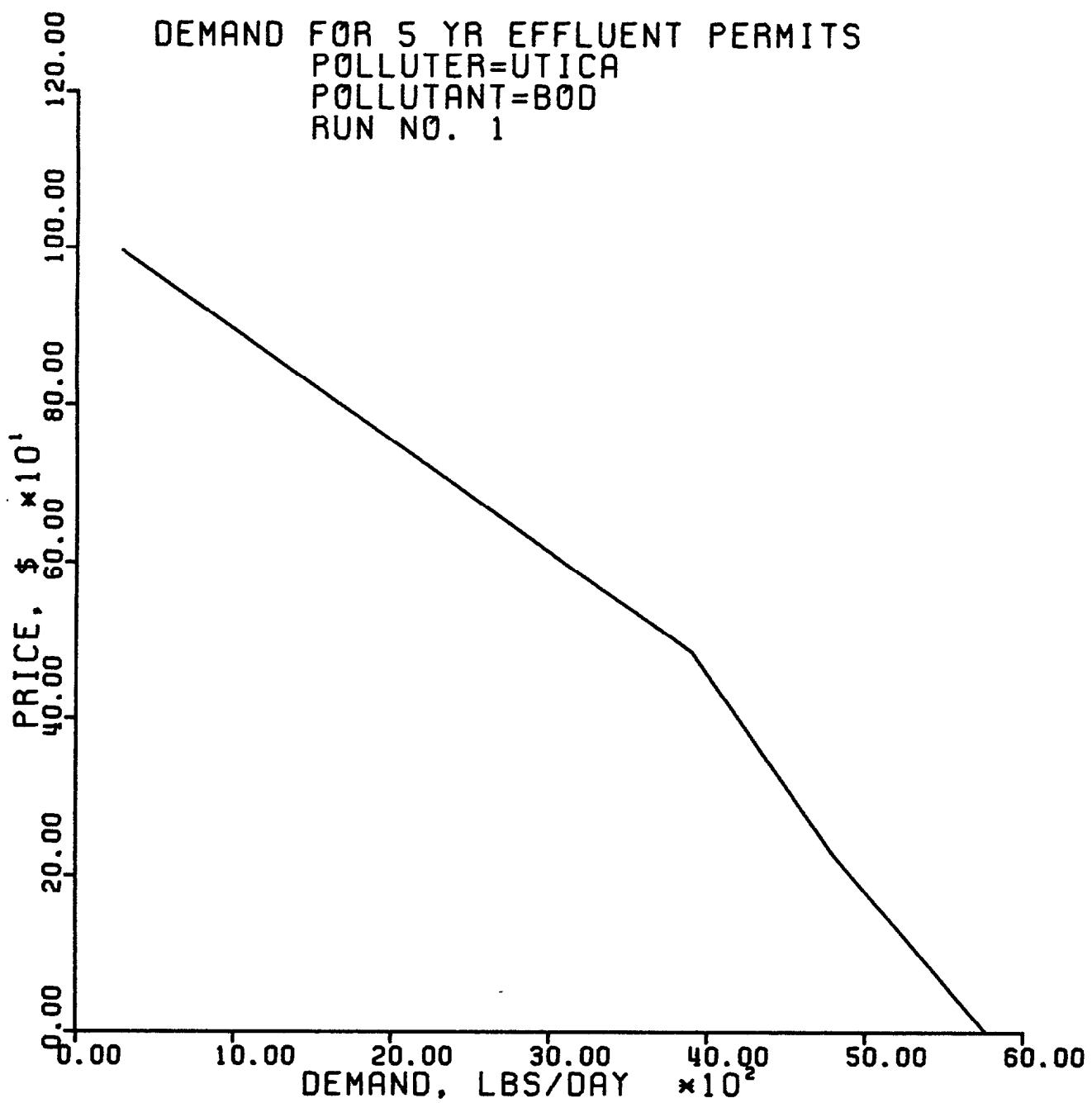
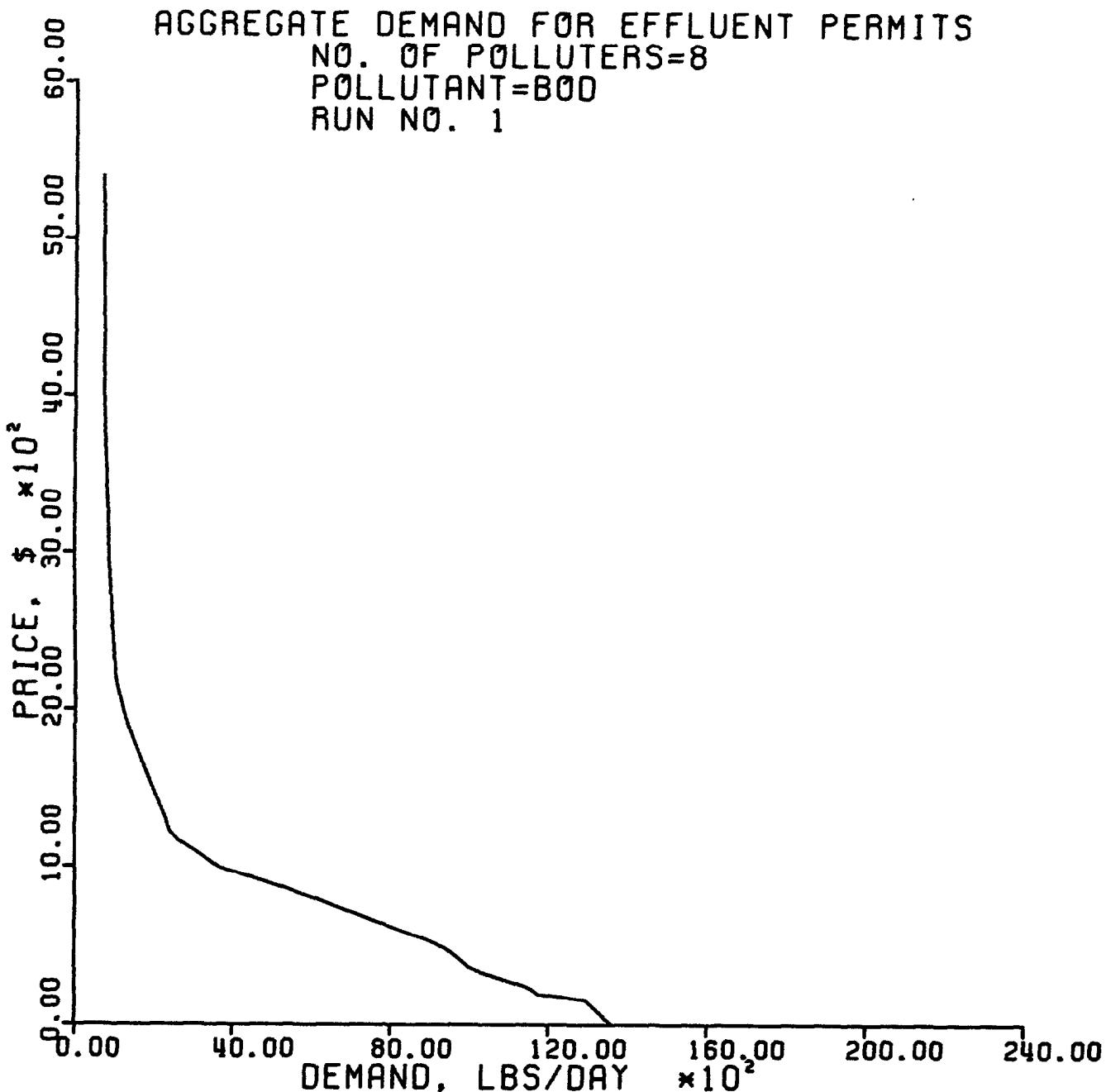


Figure A-9  
AGGREGATE DEMAND FOR EFFLUENT PERMITS



The following nine pages contain Figures A-10 through A-18 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." They all correspond to computer run 3 of the Mohawk permit system simulation. Figures A-10 through A-17 are the demand curves for the eight cities in the Mohawk River system. Figure A-18 is the aggregate demand curve for the system. All figures are described in more detail in Section 6 of this report.

Figure A-10

DEMAND CURVE OF FORT PLAIN FOR RUN 3  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

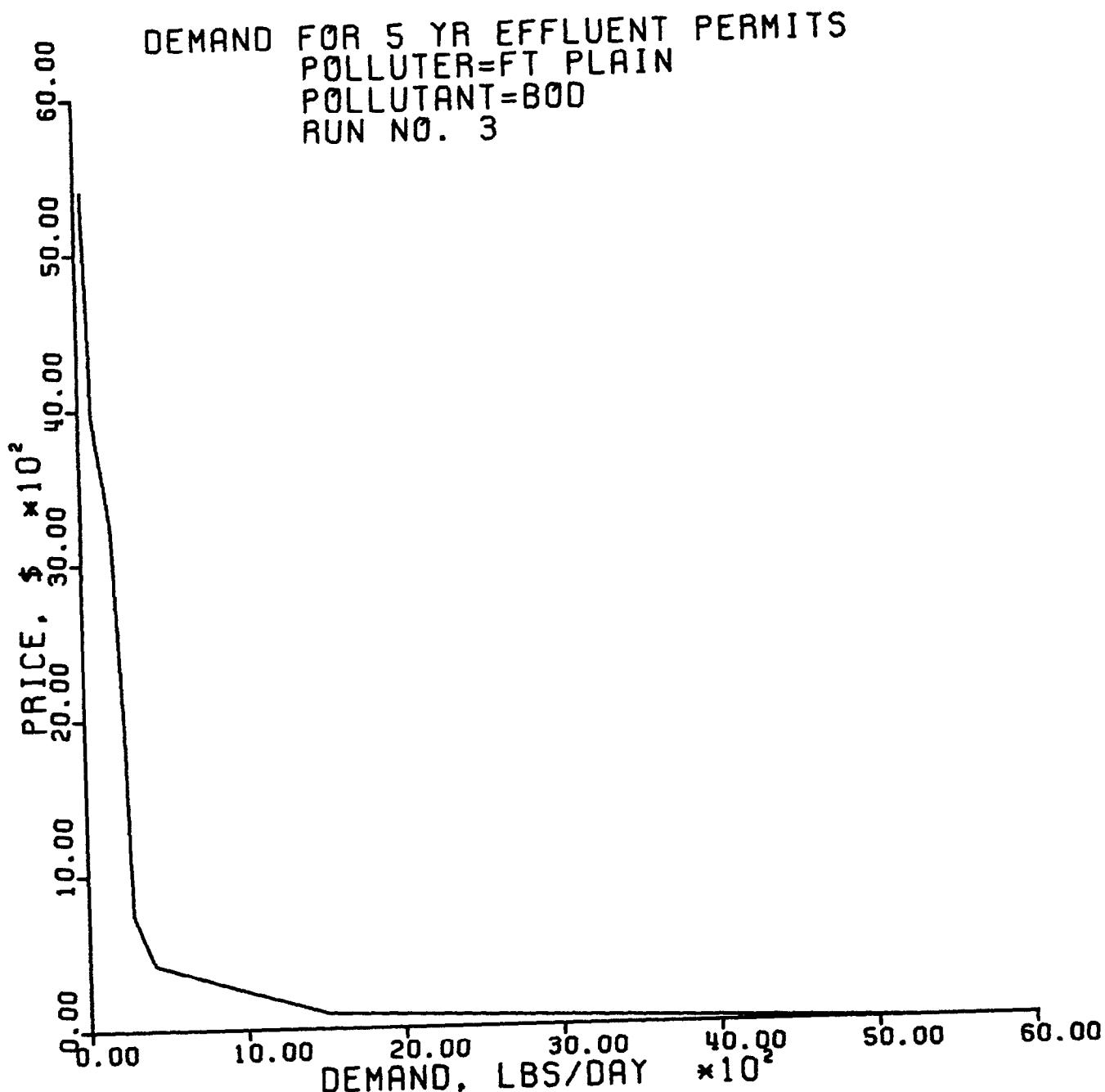


Figure A-11

DEMAND CURVE OF ILION FOR RUN 3  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

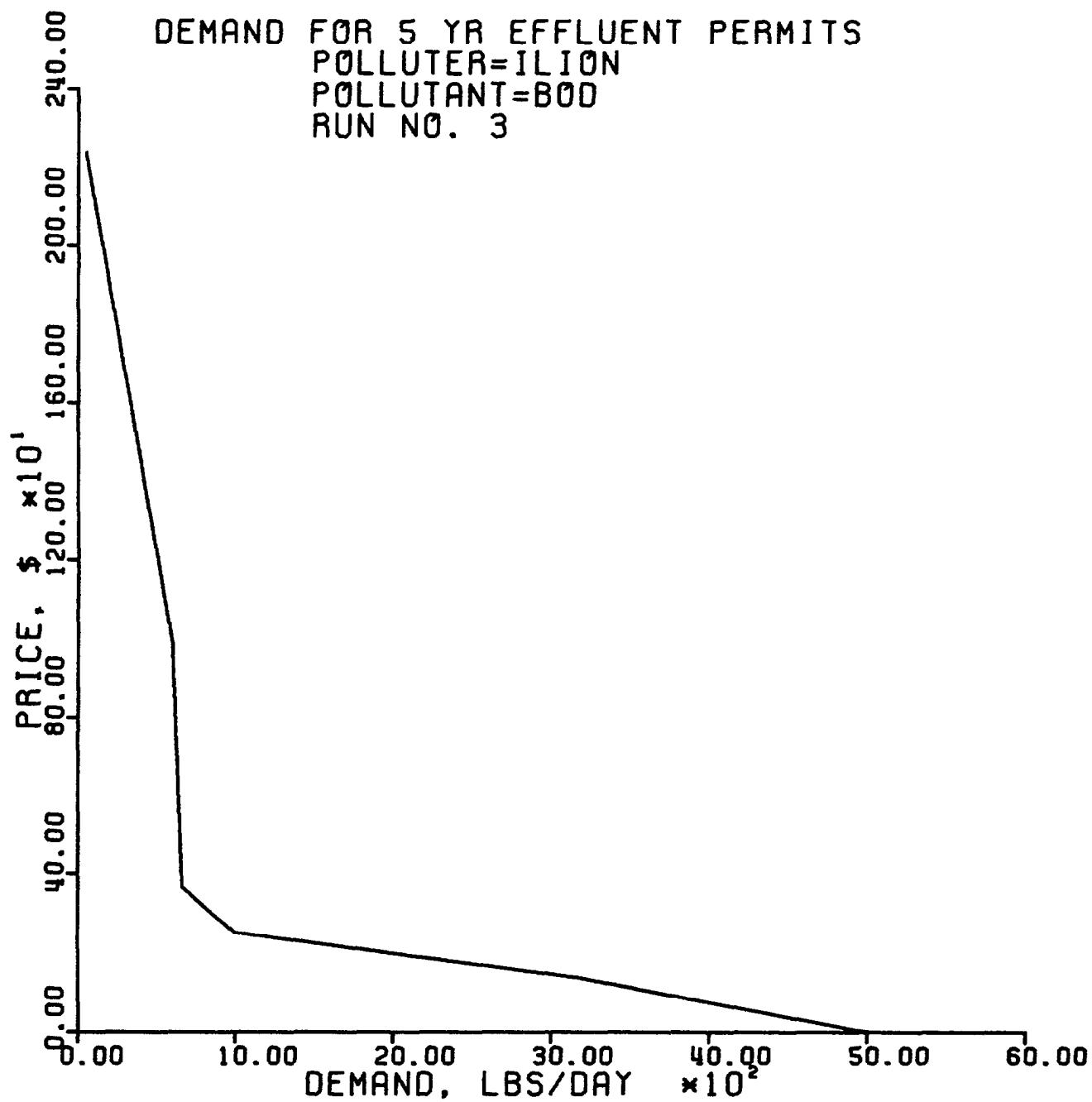


Figure A-12

DEMAND CURVE OF CANAJOHARIE FOR RUN 3  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

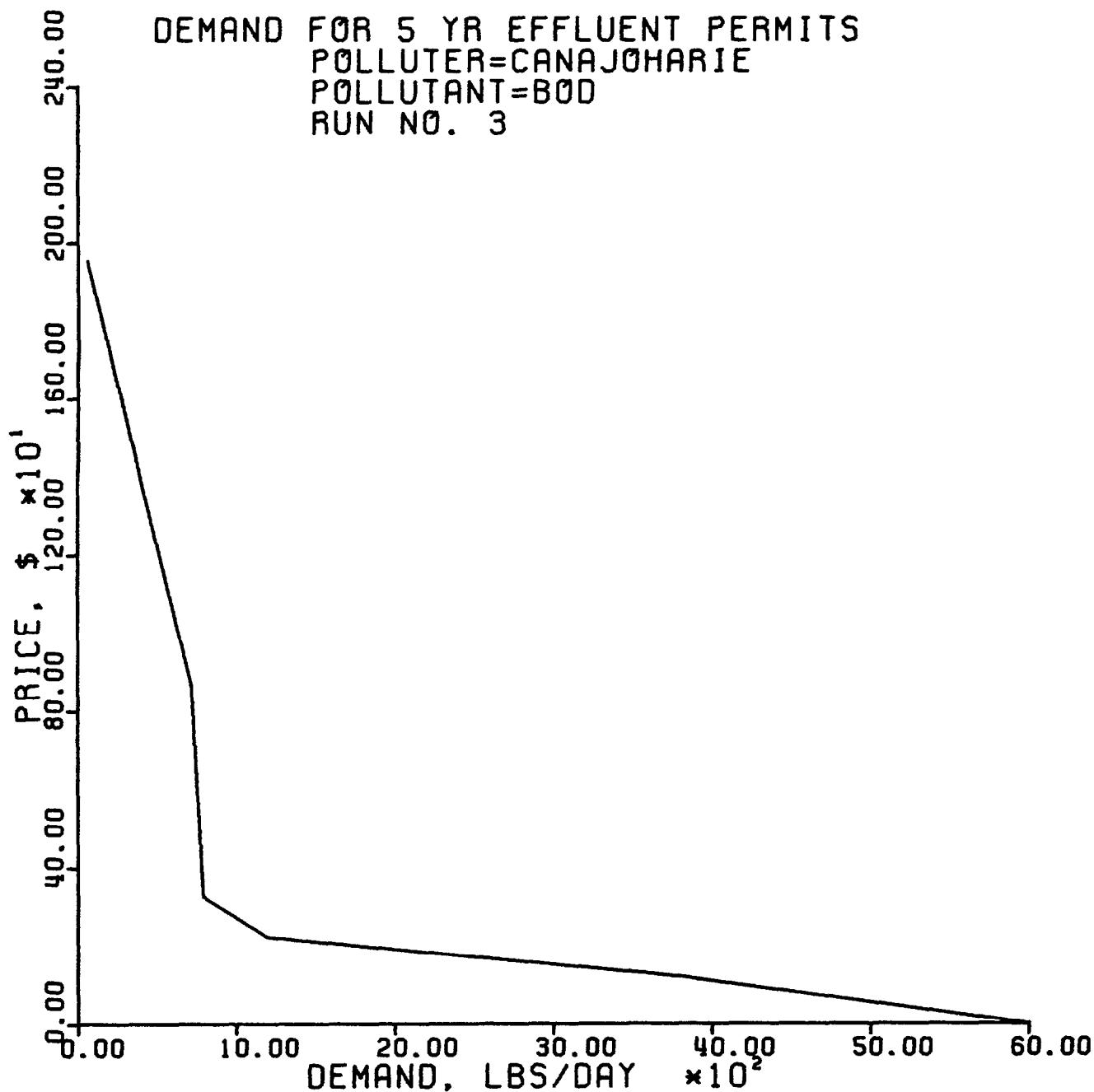


Figure A-13

DEMAND CURVE OF HERKIMER FOR RUN 3  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

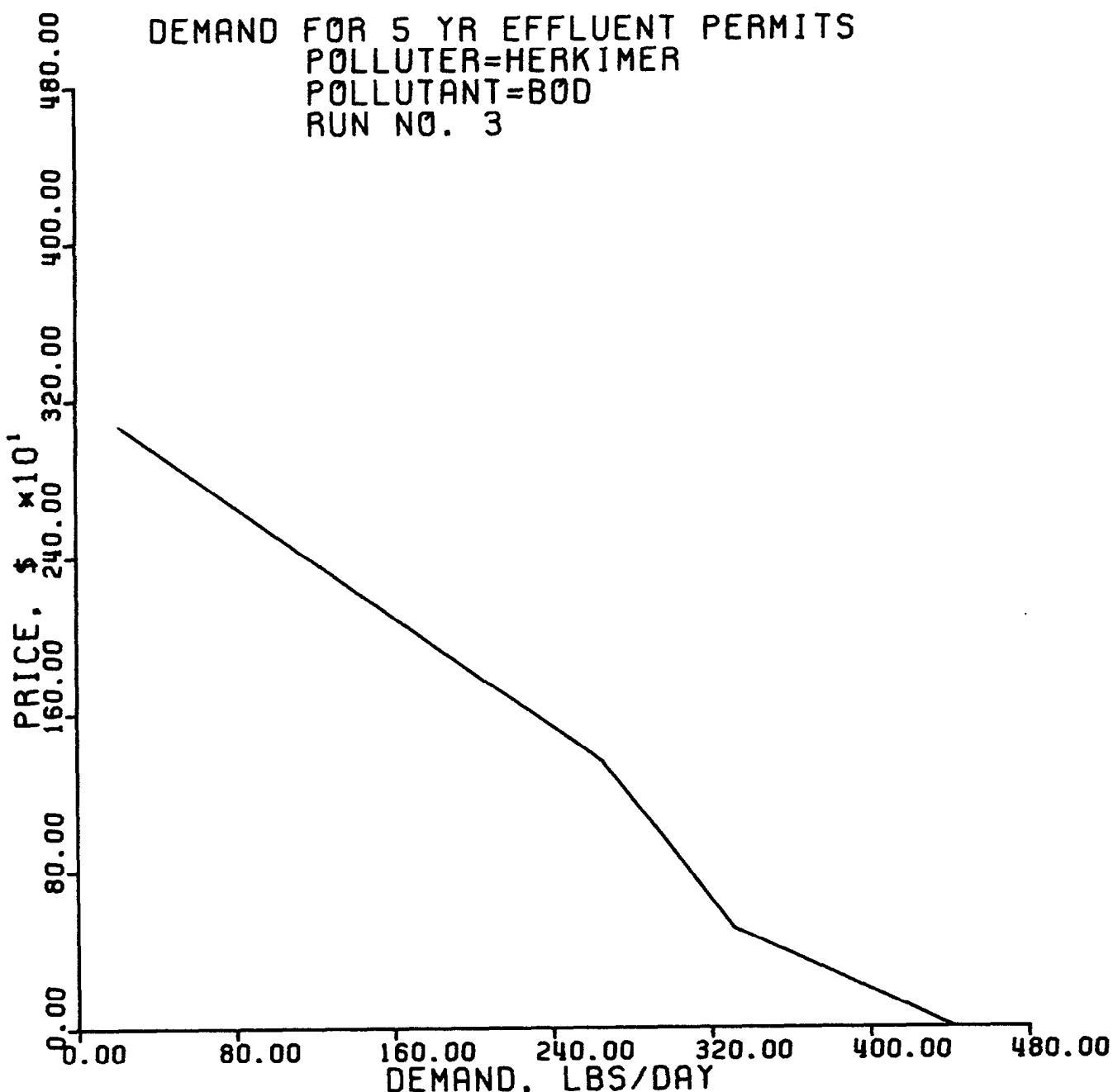


Figure A-14

DEMAND CURVE OF LITTLE FALLS FOR RUN 3  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

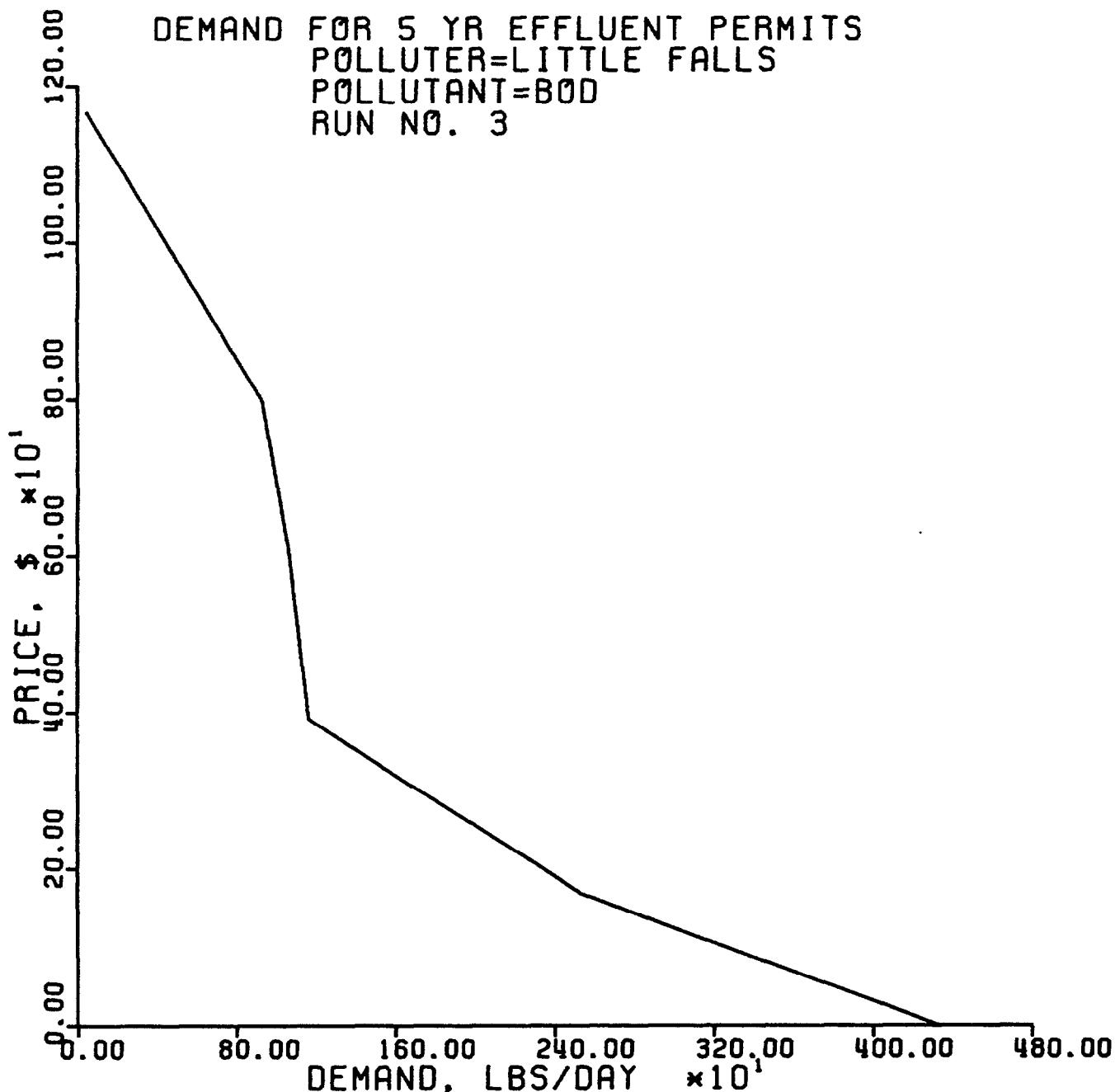


Figure A-15

DEMAND CURVE OF ROME FOR RUN 3  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

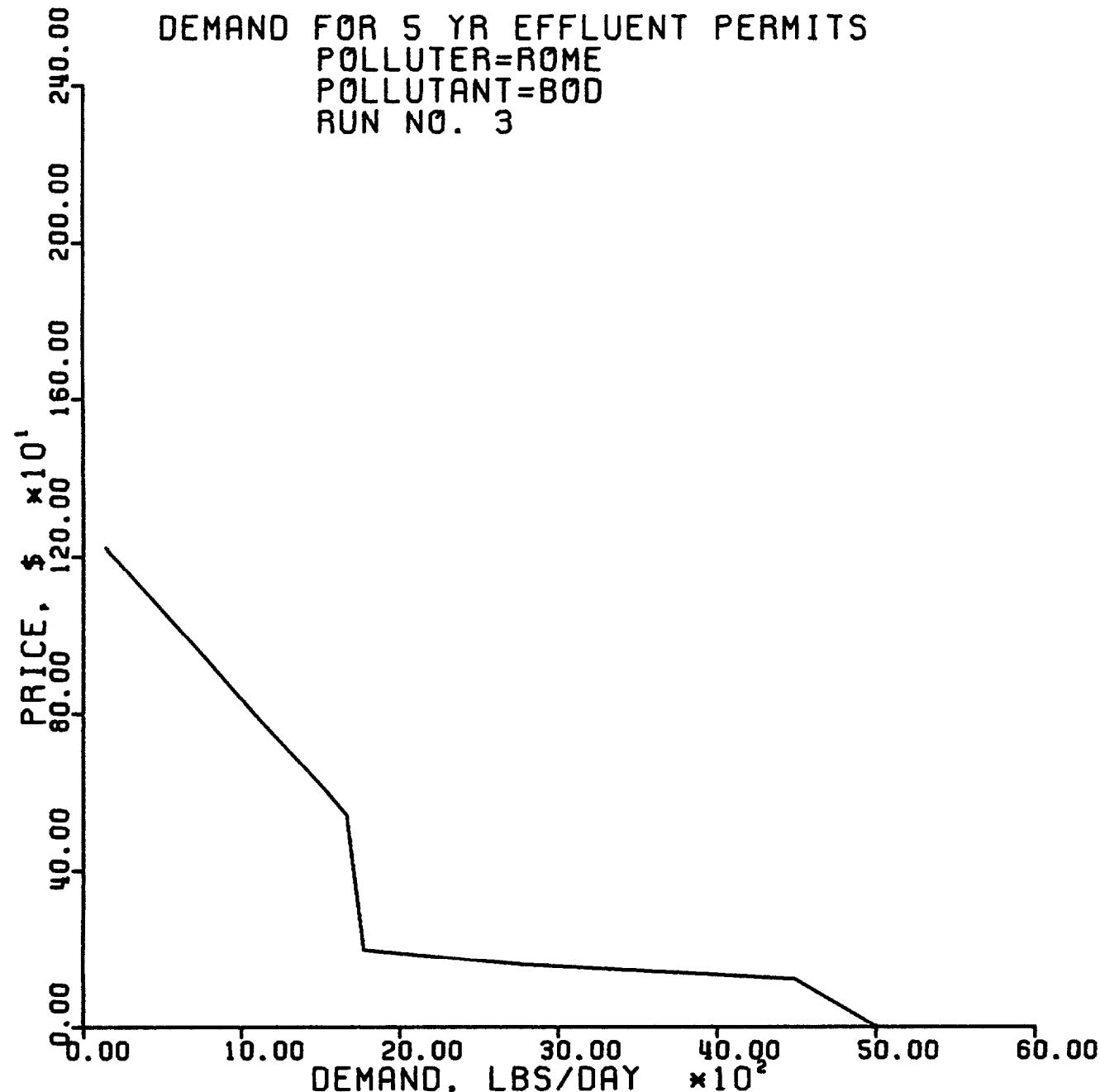


Figure A-16

DEMAND CURVE OF ST. JOHNSVILLE FOR RUN 3  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

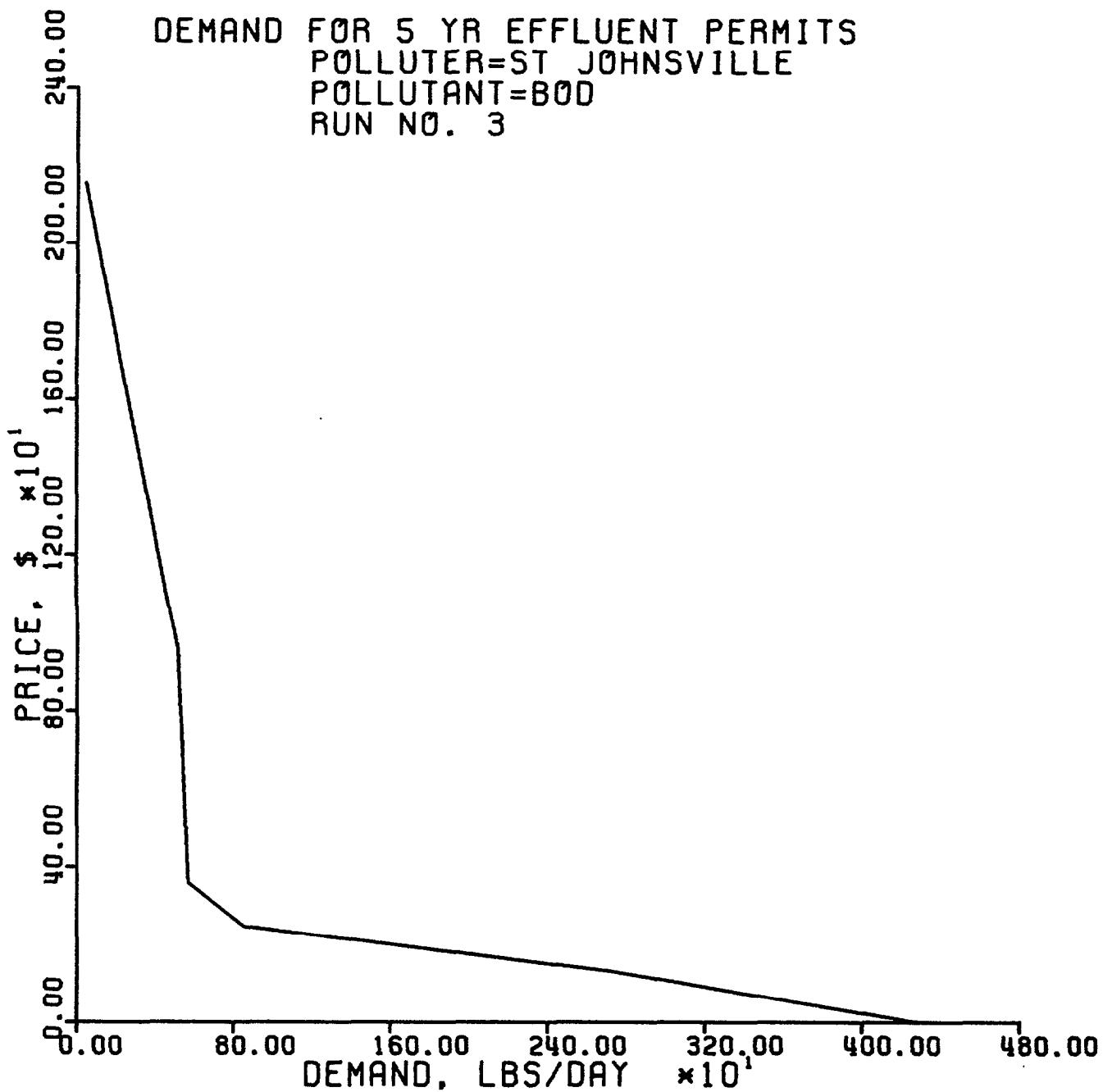


Figure A-17

DEMAND CURVE OF UTICA FOR RUN 3  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

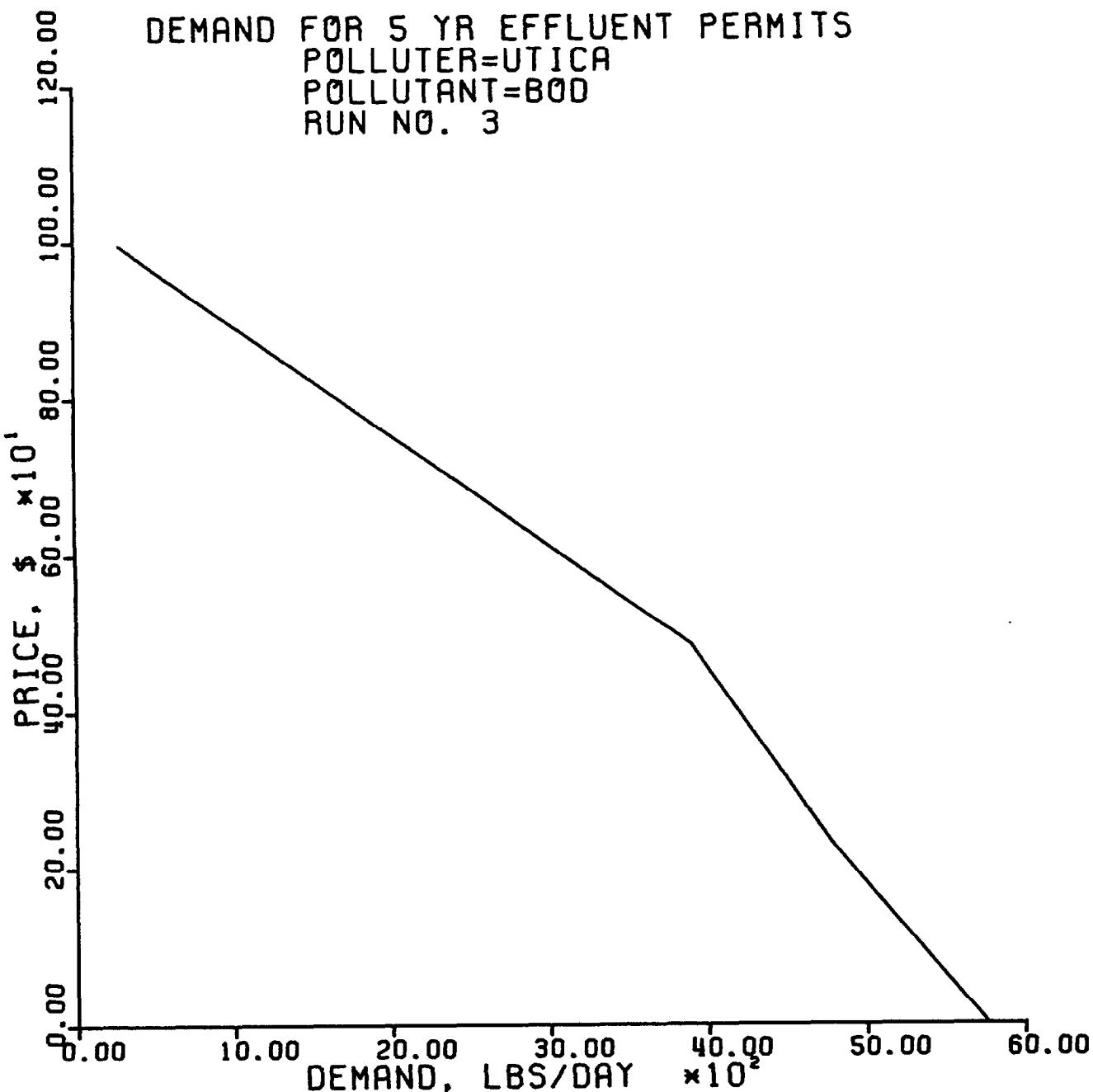
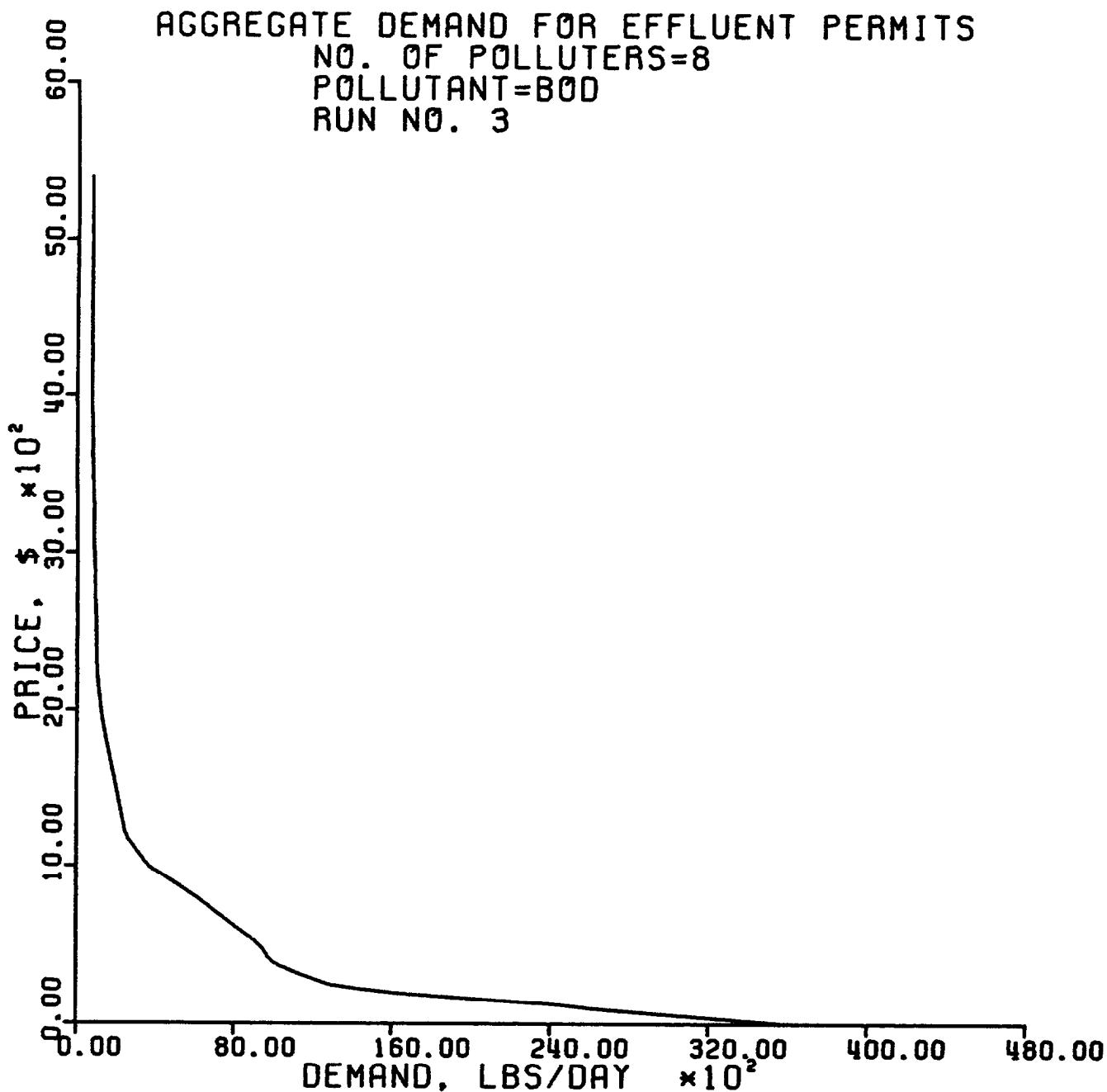


Figure A-18

AGGREGATE DEMAND FOR EFFLUENT PERMITS



The following nine pages contain Figures A-19 through A-27 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." They all correspond to computer run 4 of the Mohawk permit system simulation. Figures A-19 through A-26 are the demand curves for the eight cities in the Mohawk River system. Figure A-27 is the aggregate demand curve for the system. All figures are described in more detail in Section 6 of this report.

Figure A-19

DEMAND CURVE OF FORT PLAIN FOR RUN 4  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

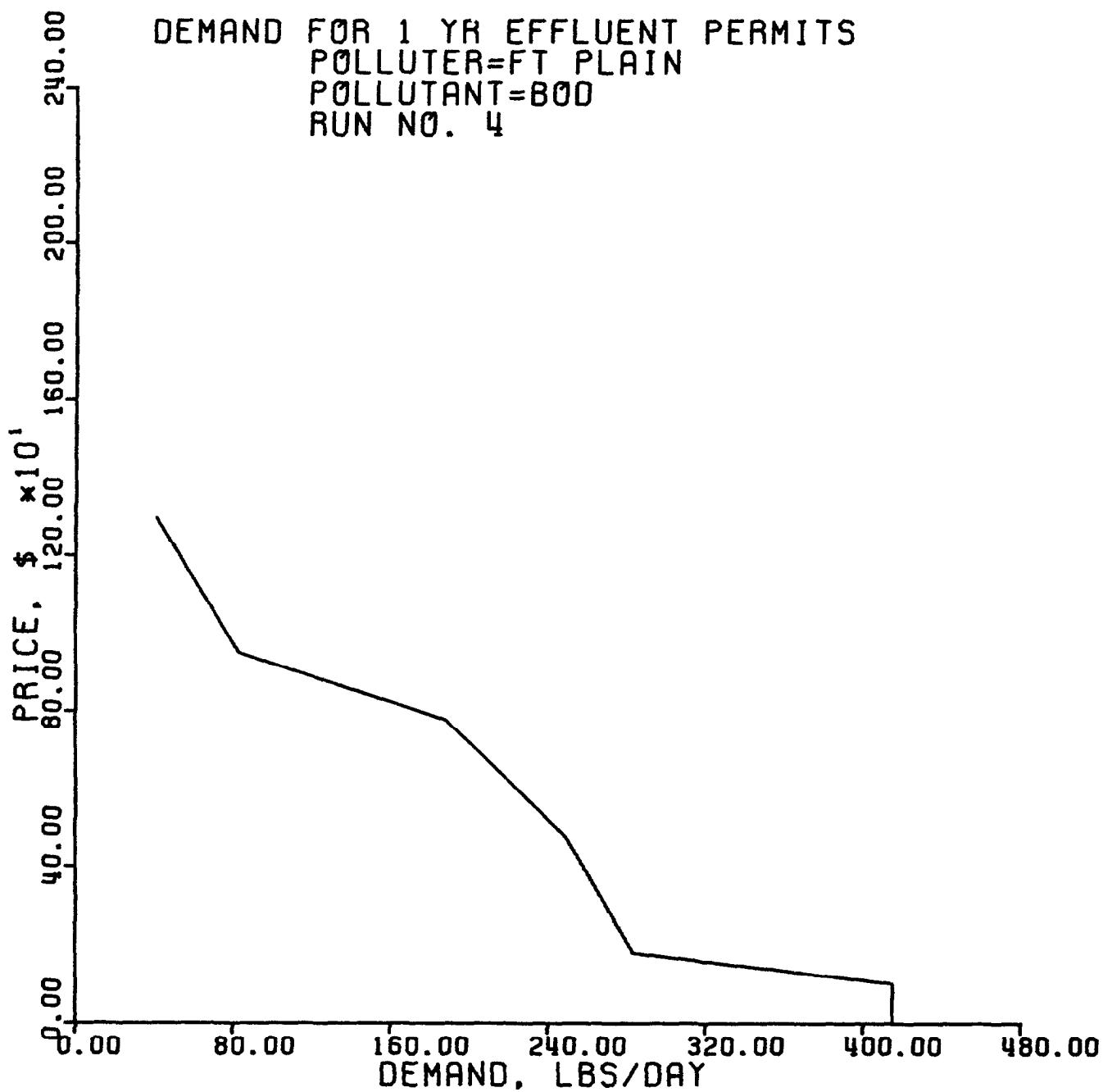


Figure A-20

DEMAND CURVE OF ILION FOR RUN 4  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

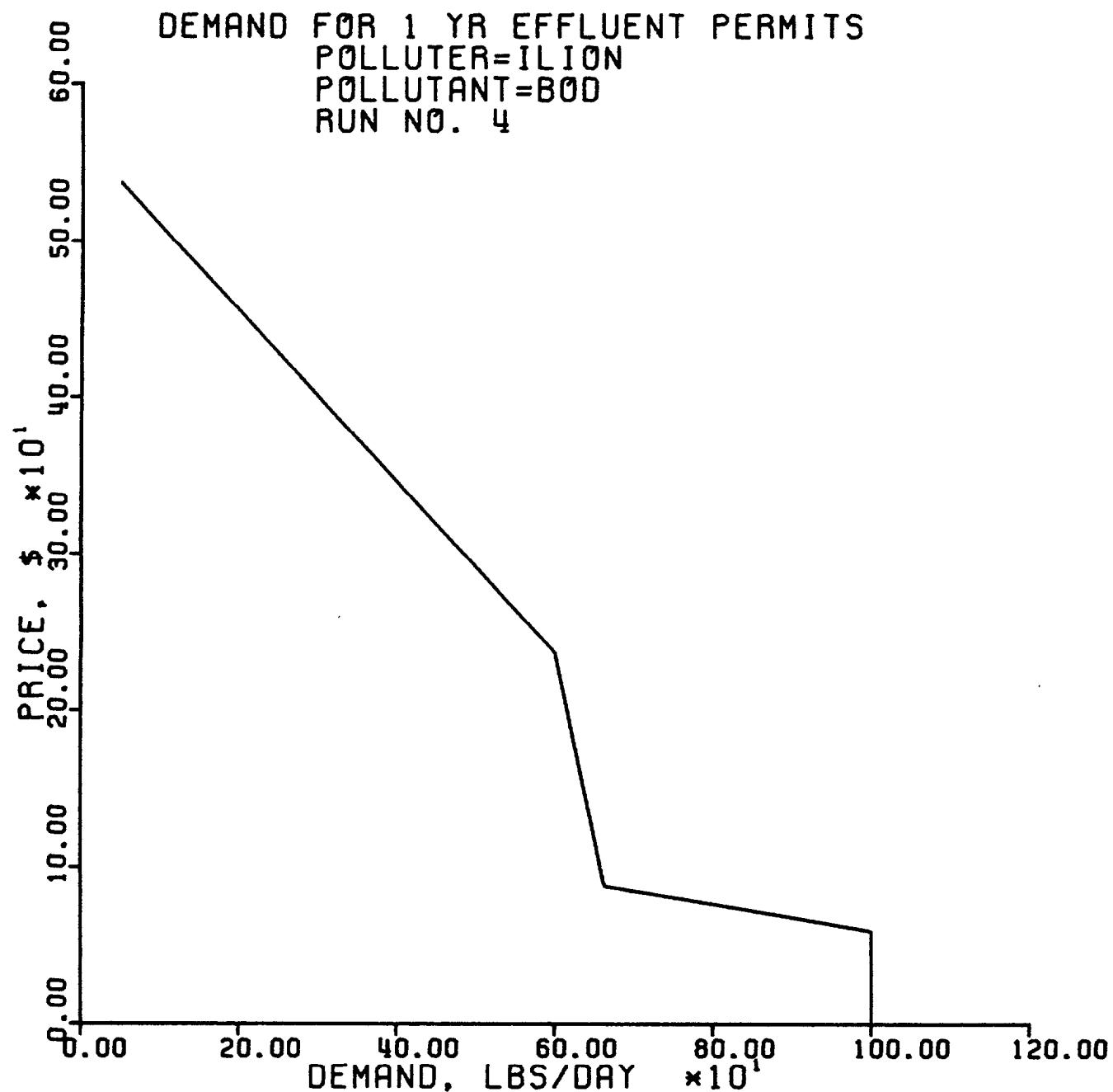


Figure A-21

DEMAND CURVE OF CANAJOHARIE FOR RUN 4  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

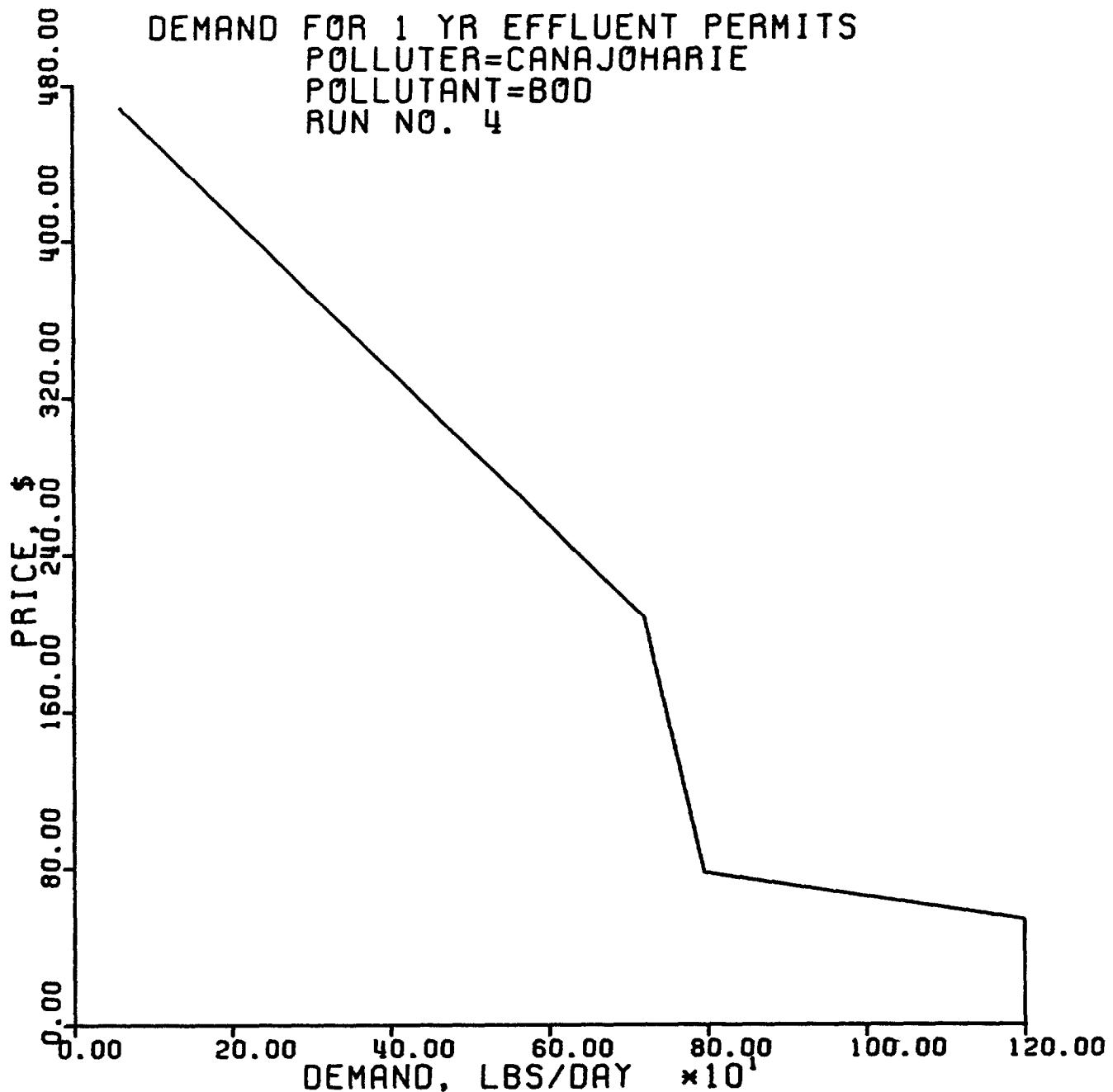


Figure A-22

DEMAND CURVE OF HERKIMER FOR RUN 4  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

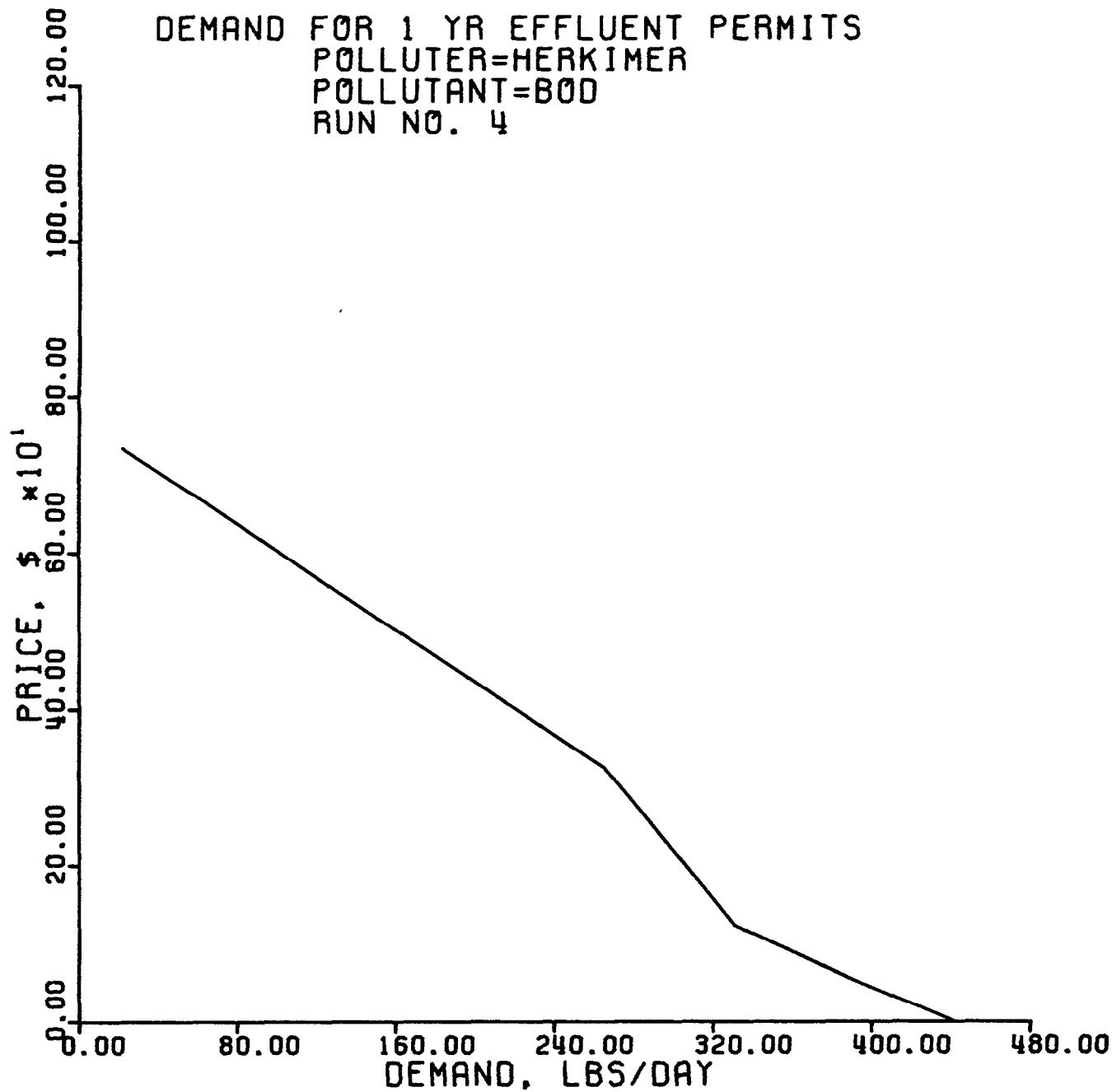


Figure A-23

DEMAND CURVE OF LITTLE FALLS FOR RUN 4  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

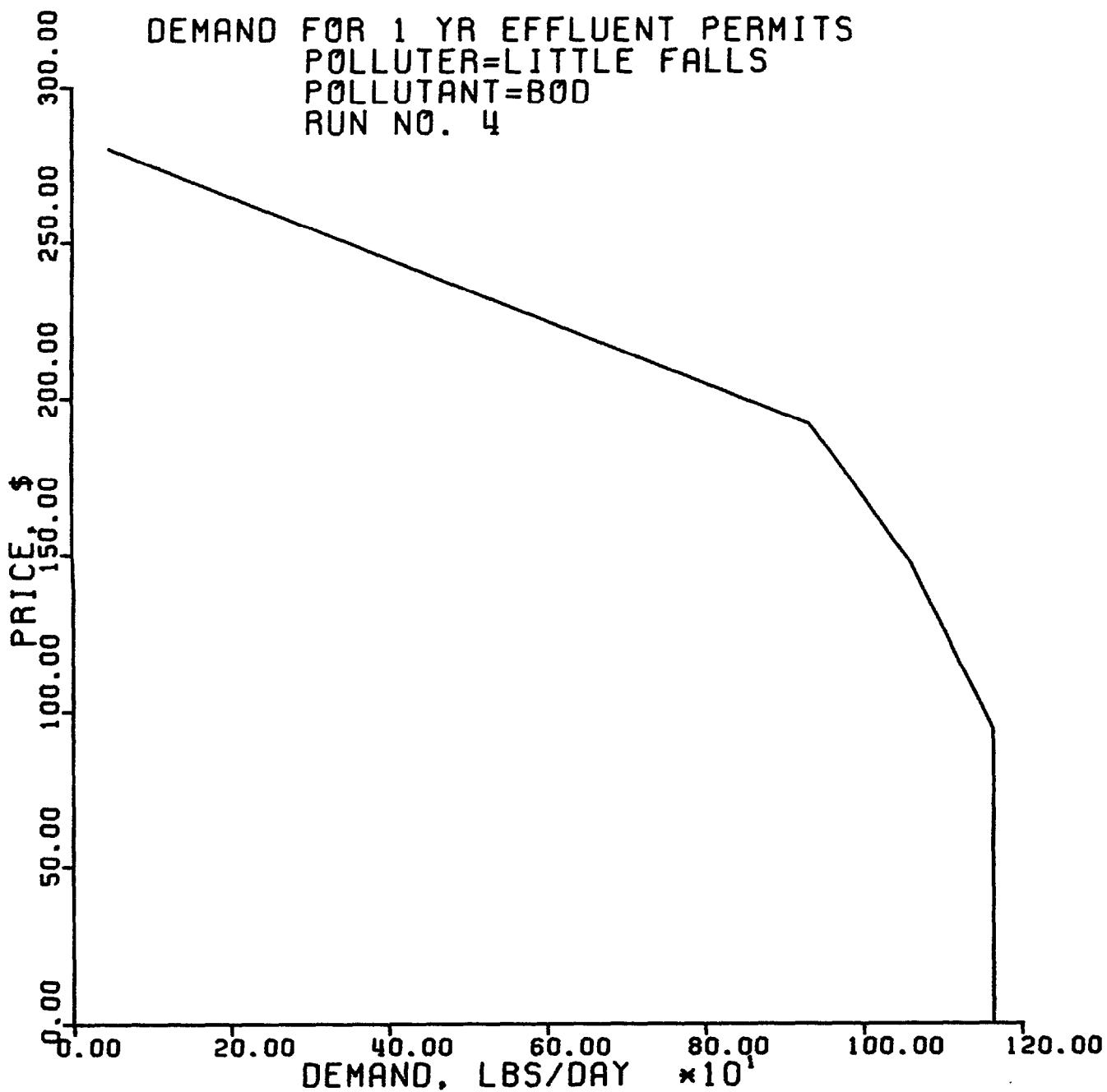


Figure A-24

DEMAND CURVE OF ROME FOR RUN 4  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

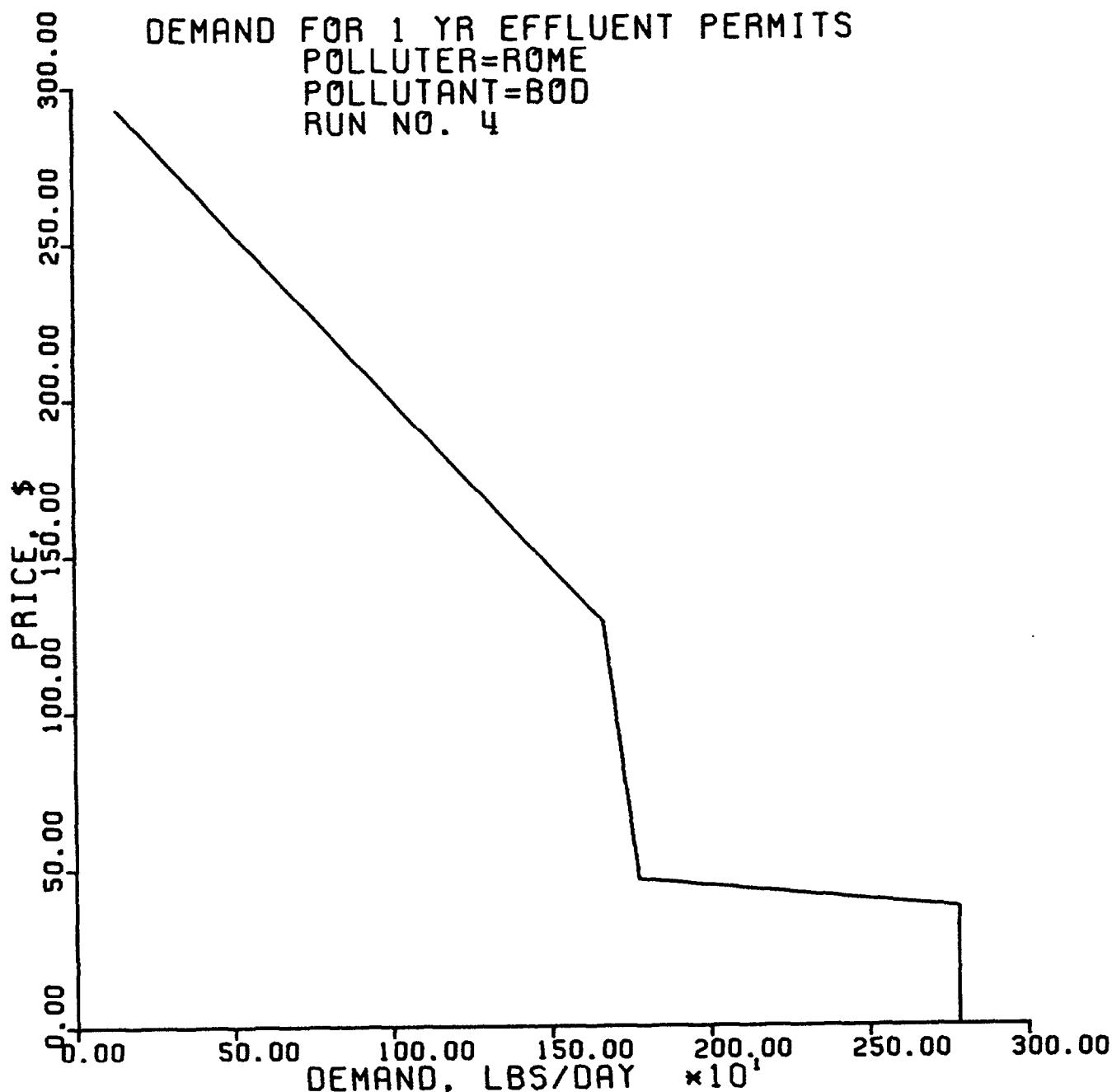


Figure A-25

DEMAND CURVE OF ST. JOHNSVILLE FOR RUN 4  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

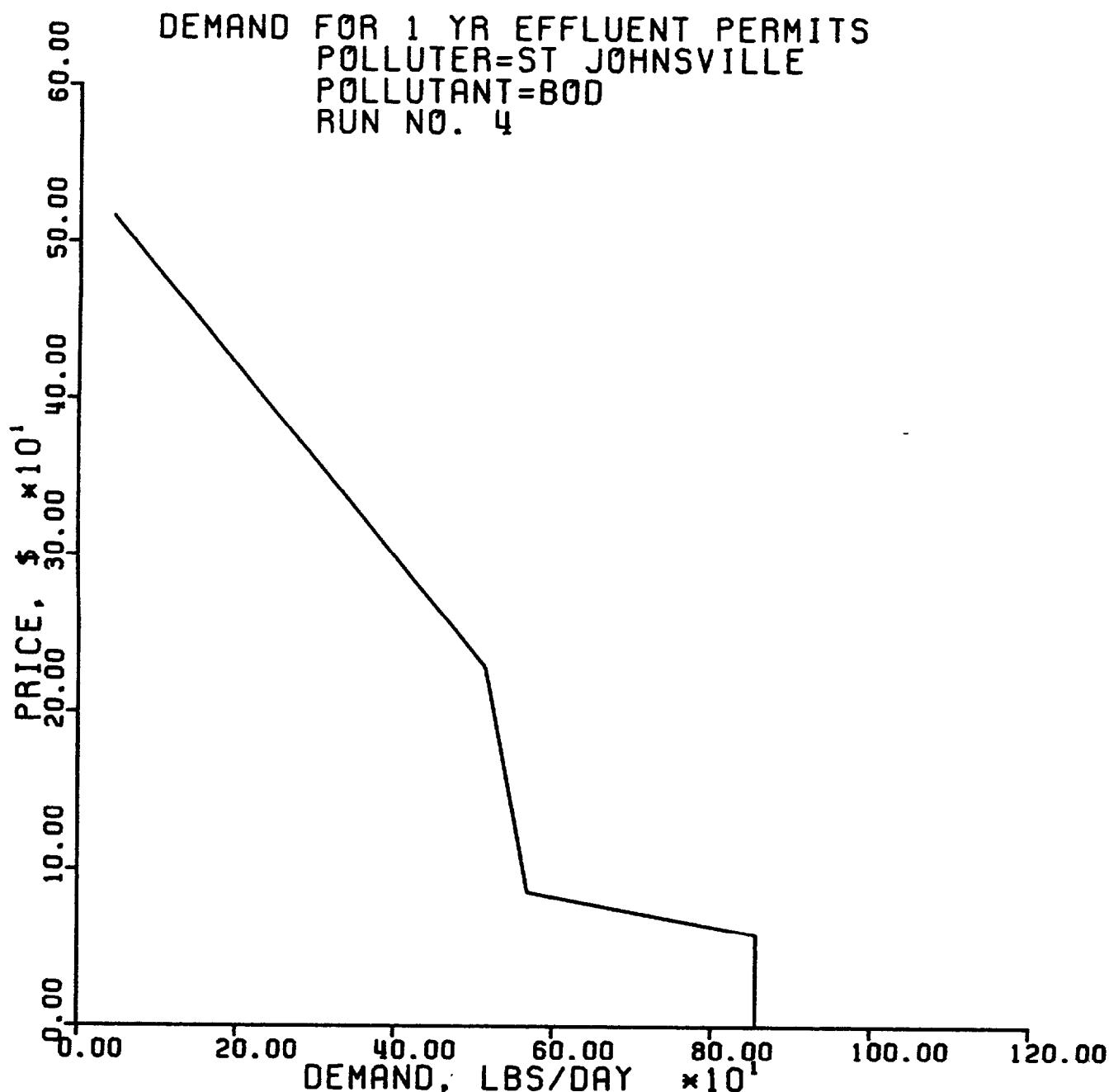


Figure A-26

DEMAND CURVE OF UTICA FOR RUN 4  
OF THE MOHAWK PERMIT SYSTEM SIMULATION

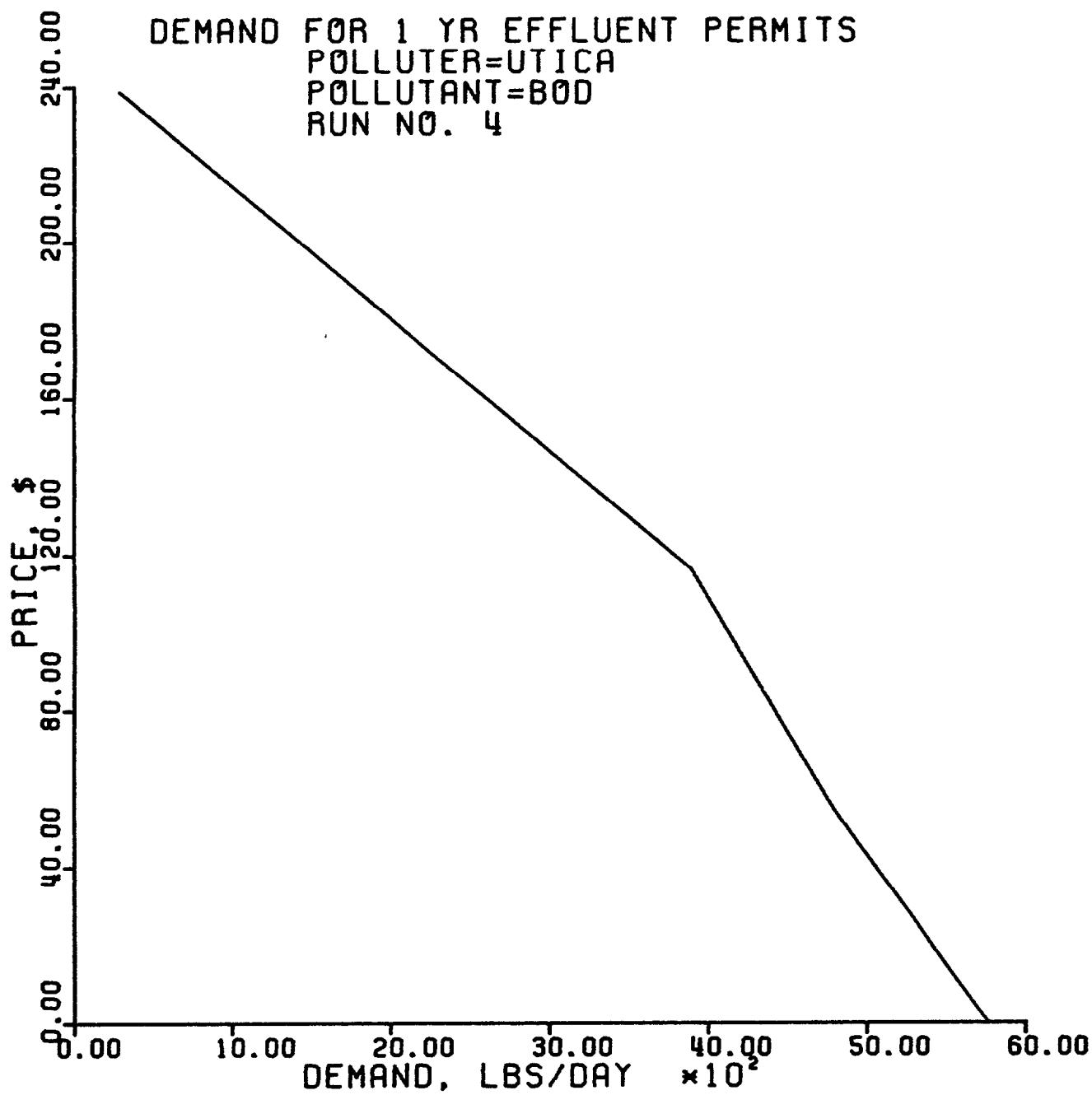
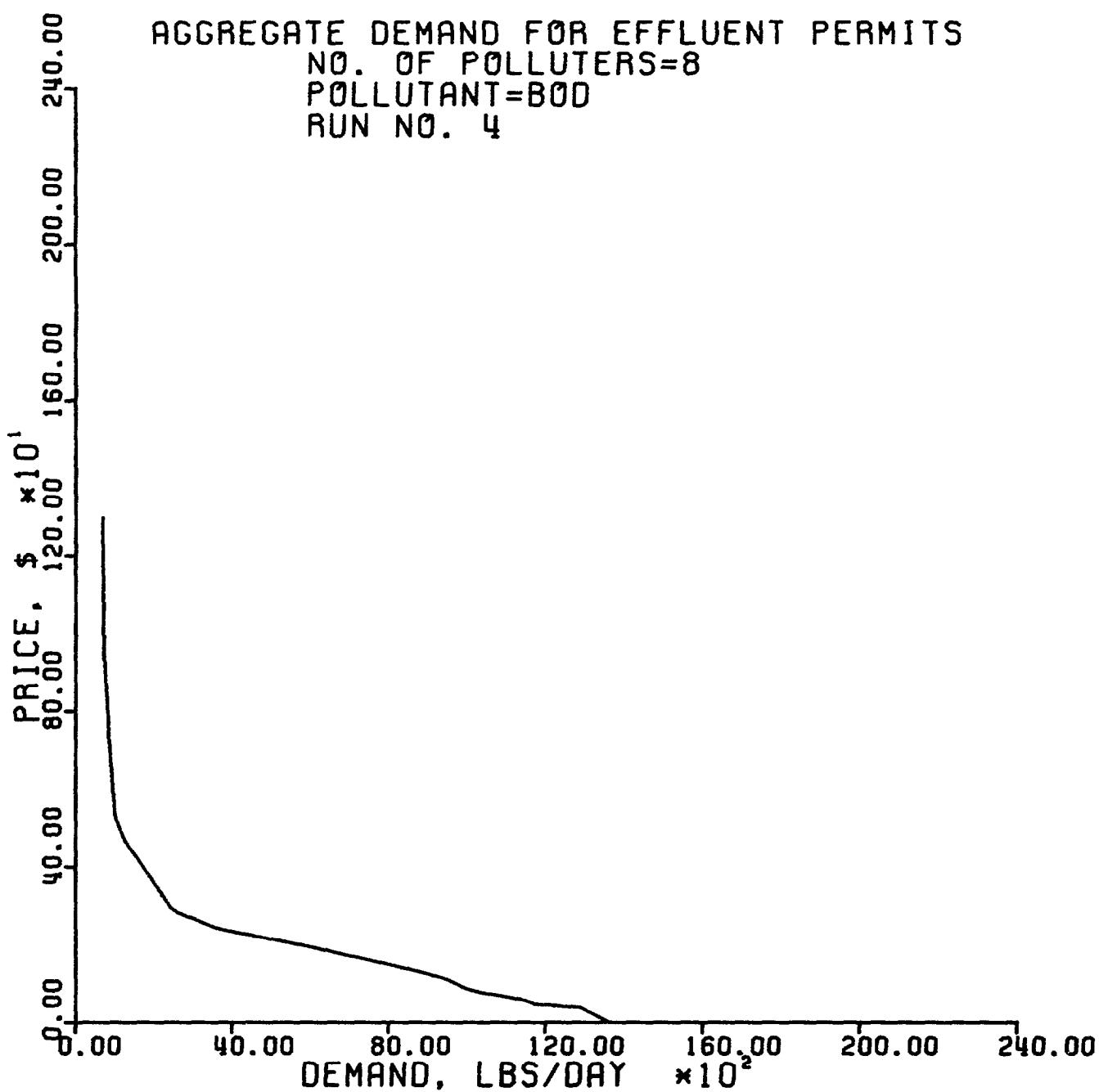


Figure A-27

AGGREGATE DEMAND FOR EFFLUENT PERMITS

AGGREGATE DEMAND FOR EFFLUENT PERMITS  
NO. OF POLLUTERS=8  
POLLUTANT=BOD  
RUN NO. 4



The following nine pages contain Figures A-28 through A-36 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." They all correspond to computer run 5 of the Mohawk permit system simulation. Figures A-28 through A-35 are the demand curves for the eight cities in the Mohawk River system. Figure A-36 is the aggregate demand curve for the system. All figures are described in more detail in Section 6 of this report.